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NOTICE OF ALLOWANCE AND FEE(S) DUE

21839

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11/04/2008

BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404 EXAMINER

SHEVIN, MARK L

ART UNIT PAPER NUMBER

1793

DATE MAILED: 11/04/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564.479	01/13/2006	Seppo Heimala	1034281-000002	9194

TITLE OF INVENTION: METHOD FOR SMELTING COPPER CONCENTRATES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/04/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further indicated unless correct maintenance fee notification.	correspondence includir ted below or directed other	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification (a) specifying a new co	of m orres _i	naintenance fees w pondence address;	ill be a and/or	mailed to the current (b) indicating a sepa	correspondence address as urate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 21839 7590 11/04/2008				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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BUCHANAN, POST OFFICE ALEXANDRIA]	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with States Postal Service with sufficient postage for first class mail in a addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO (571) 273-2885, on the date indicated bel-						
								(Depositor's name)
								(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	FOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/564,479 TITLE OF INVENTION	01/13/2006 N: METHOD FOR SMEL	TING COPPER CONCE	Seppo Heimala ENTRATES			10	34281-000002	9194
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	
nonprovisional	NO	\$1510	\$300	_	\$0		\$1810	02/04/2009
	MARK L	ART UNIT 1793	CLASS-SUBCLASS 075-424000					
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CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	A TO BE PRINTED ON ' ified below, no assignee bletion of this form is NO	data will appear on th	e pa	tent. If an assignersignment.			ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Co	rporati	on or other private gro	oup entity 🚨 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	ntus (from status indicated as SMALL ENTITY state		☐ b. Applicant is no	long	ger claiming SMAI	L ENT	TITY status. See 37 Cl	FR 1.27(g)(2).
NOTE: The Issue Fee ar interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	an th	ne applicant; a regi	stered a	ttorney or agent; or th	ne assignee or other party in
Authorized Signature					Date			
Typed or printed name								
an application. Confident submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	ntiality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DC 313-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR (1.14. This collection is depending upon the ine Chief Information Of COMPLETED FORMS	s esti ndivi ffice S TC	mated to take 12 ridual case. Any co r, U.S. Patent and THIS ADDRESS	ninutes mment Traden . SENI	to complete, including on the amount of the transport of transport of the transport of the transport of transport of the transport of	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450, number

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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10/564,479	01/13/2006	Seppo Heimala	1034281-000002	9194
21839 75	21839 7590 11/04/2008		EXAM	INER
BUCHANAN, IN	NGERSOLL & ROO	SHEVIN, MARK L		
POST OFFICE BO		ART UNIT PAPER NUMBER		
ALEXANDRIA, V	'A 22313-1404		1793	
		DATE MAILED: 11/04/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 391 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 391 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/564 470	HEIMALA ET AL	
Notice of Allowability	10/564,479 Examiner	HEIMALA ET AL. Art Unit	
	Mark I Chavin	1702	
	Mark L. Shevin	1793	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED) or other appropriate comr RIGHTS. This application is	in this application. If not included nunication will be mailed in due cours	
1. This communication is responsive to <u>07/07/2008</u> .			
2. The allowed claim(s) is/are <u>1 and 12-25</u> .			
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav) or (f).	
2. Certified copies of the priority documents hav	e been received in Applicat	ion No	
3. Copies of the certified copies of the priority do	ocuments have been receiv	ed in this national stage application fr	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requiren	nents
4. A SUBSTITUTE OATH OR DECLARATION must be submiNFORMAL PATENT APPLICATION (PTO-152) which give			E OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) I including changes required by the Notice of Draftsper	son's Patent Drawing Revi	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	_•		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			he
Attachment(s)	E □ Notice of	nformal Datant Application	
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		nformal Patent Application Summary (PTO-413),	
_ ,	Paper No	o./Mail Date s Amendment/Comment	
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	<u></u>		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		s Statement of Reasons for Allowand	е
	9. 🔲 Other	<u> </u>	
	/Roy King/ Supervisory P	atent Examiner, Art Unit 1793	

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DETAILED ACTION

Status of Claims

Claims 1 and 12-25, filed July 7th, 2008, are currently under examination. 1.

Compared to the claims filed January 13th, 2006 and examined in the previous Office

Action mailed April 7th, 2008:

Amended: Claims 1 and 12-19

Cancelled: Claims 2-11

New: Claims 20-25

Status of Previous Objections

2. The previous objection to the drawing, Figure 1, is withdrawn in view of

Applicant's remarks at p. 8, para 4.

Status of Previous Rejections

3. The previous rejections of claims 1-7 and 9-10 under 35 U.S.C 103(a) over

Schlitt (US 4,152,142) in view of **Gabb** (US 5,616,168) and **Johnson** (US 3,957,602)

have been withdrawn in view of the amendments to claim 1 and Applicants' remarks at

p. 9 -12.

The previous rejections of claims 8 and 11-19 under 35 U.S.C. 103(a) over 4.

Schlitt (US 4,152,142) in view of **Gabb** (US 5,616,168) **Johnson** (US 3,957,602),

Heimala (US 5,108,495) and Richmond (US 6,537,440) have been withdrawn in view

of the amendments to claim 1 and Applicants' remarks at p. 9 -12.

Allowable Subject Matter and Reasons for Allowance

5. Claims 1 and 12-25 are allowed.

Page 3

to the smelter.

The following is an examiner's statement of reasons for allowance:

The closest prior art in this case, Schlitt (US 4,152,142), does not teach recycling copper sulfide bearing material to the smelter nor a conversion step, but instead teaches a cementation step which yields free copper and iron sulfate. The next closest art of Gabb (5,616,168), as used as a secondary reference, does not teach or provide motivation to modify Schlitt to include a conversion step combining iron-depleted copper sulfate solution with sulfide-bearing concentrate nor the recycling of sulfide form copper

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Pertinent Prior Art

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hanniala: WO 2004/050925 A1 (June 17th 2004)

Hulthom: WO 2006/084950 A1 (August 17th, 2006)

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in Accordingly, THIS ACTION IS MADE FINAL. this Office action. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not Application/Control Number: 10/564,479 Page 4

Art Unit: 1793

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

-- Claims 1 and 12-25 are allowed

-- No claims are allowed

The rejections above rely on the references for all the teachings expressed in the texts of the references and/or one of ordinary skill in the metallurgical art would have reasonably understood or implied from the texts of the references. To emphasize certain aspects of the prior art, only specific portions of the texts have been pointed out. Each reference as a whole should be reviewed in responding to the rejection, since other sections of the same reference and/or various combinations of the cited references may be relied on in future rejections in view of amendments.

All recited limitations in the instant claims have been met by the rejections as set forth above. Applicant is reminded that when amendment and/or revision is required, applicant should therefore specifically point out the support for any amendments made to the disclosure. See 37 C.F.R. § 1.121; 37 C.F.R. Part §41.37 (c)(1)(v); MPEP §714.02; and MPEP §2411.01(B).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark L. Shevin whose telephone number is (571) 270-3588 and fax number is (571) 270-4588. The examiner can normally be reached on Monday - Friday, 8:30 AM - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy M. King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/Mark L. Shevin/ Examiner, Art Unit 1793

/Roy King/ Supervisory Patent Examiner, Art Unit 1793

> October 15th, 2008 10-564,479